



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of  
ARDAVAN et al.

Atty. Ref.: 117-342

Serial No. 09/786,507

TC/A.U.: 2881

Filed: May 1, 2001

Examiner: B. Souw

For: APPARATUS FOR GENERATING FOCUSED ELECTROMAGNETIC  
RADIATION

\* \* \* \* \*

May 18, 2005

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449. Copies are included in Appendix B of Applicants' response.

- ☒ All listed documents are attached.
- ☐ Copies of U.S. Patent Publications are not required and are not attached.
- ☐ Listed foreign patent publications and other documents are enclosed.
- ☐ The listed documents were cited in the ISR and copies should have been

supplied by WIPO directly to the US PTO. If copies are not timely received from WIPO, please telephone the undersigned so that copies can be timely supplied for the Examiner's consideration in this US National Phase Application.

This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

ARDAVAN et al.  
Serial No. 09/786,507

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By: \_\_\_\_\_



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## INFORMATION DISCLOSURE CITATION

ATTY. DOCKET NO.

SERIAL NO.

117-342

09/786,507

**APPLICANT**

ARDAVAN et al.

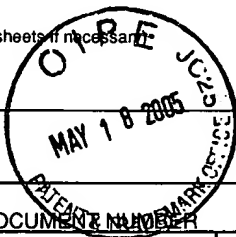
FILING DATE

TC/A.U.

May 1, 2001

2881

(Use several sheets if necessary)



## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER DOCUMENTS** (including Author, Title, Date, Pertinent pages, etc.)

	V. L. Ginzburg; "Vavilov-Cerenkov Effect and Anomalous Doppler Effect in a Medium in which the Wave Phase Velocity Exceeds the Velocity of Light in Vacuum;" Soviet Physics JETP 35; pages 92-93; 1972.
	V. L. Ginzburg; "Theoretical Physics and Astrophysics" (Pergamon, Oxford, UK, 1979); Chap. VIII.
	A. V. Bessarab, A. A. Gorbunov, S. P. Martynenko, and N. A. Prudkoy; "Faster-Than-Light EMP Source Initiated by Short X-ray Pulse of Laser Plasma;" IEEE Transactions on Plasma Science, 32; pages 1400-1403; 2004.
	H. Ardavan, A. Ardanvan, and J. Singleton; "Frequency Spectrum of Focused Broadband Pulses of Electromagnetic Radiation Generated by Polarization Currents with Superluminally Rotating Distribution Patterns;" Journal of the Optical Society of America A, 20; pages 2137-2155; 2003.
	H. Ardavan, A. Ardanvan, and J. Singleton; "Spectral and Polarization Characteristics of the Nonspherically Decaying Radiation Generated by Polarization Currents with Superluminally Rotating Distribution Patterns;" Journal of the Optical Society of America A, 21; pages 858-872; 2004.
	A. Ardavan, W. Hayes, J. Singleton, H. Ardavan, J. Fopma, and D. Halliday; "Experimental Observation of Nonspherically-Decaying Radiation from a Rotating Superluminal Source;" Journal of Applied Physics, 96, 4614 (2004); 96, 7760(E) (2004).
	E. Recami, M. Zamboni-Rached, K. Z. Nobrega, and C. A. Dartora; "On the Localized Superluminal Solutions to the Maxwell Equations;" IEEE Journal of Selected Topics in Quantum Electronics, 9; pages 59-73; 2003.

\*Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.